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(54) FATTY COMPOSITIONS FOR THE MANUFACTURE OF COSMETIC PRODUCTS

We, L'OREAL, a French Body Corporate, of 14 Rue Royale, Paris, 8e, France, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:-

The present invention relates to a new fatty composition suitable for the manufacture of cosmetic products and especially make-up products. The present invention also relates to the cosmetic compositions in which the said fatty composition is present.

As is well known, make-up products of the type of lip rouge in stick or paste form or mascara consist mainly of a fatty base which is a mixture of one or more waxes and one or more oils.

The oils and waxes which can be used for 20 the manufacture of such make-up products are very varied, and their choice depends primarily on the intended use of the products.

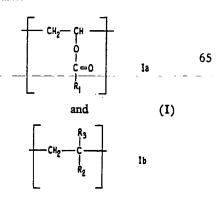
Hitherto, the use of certain waxes or oils of animal, vegetable or mineral origin, or of certain synthetic substances which have properties similar to those of the natural substances and which can consequently advantageously replace them, has been exclusively recommended.

Although commonly used in cosmetics, these waxes and these oils, whether they be of natural or synthetic origin, do not make it possibile to impart to lip rouges in stick or paste form and to mascaras properties which are wholly satisfactory, especially in relation firstly to the strength of the sticks and secondly to the gloss of the film deposited on the lips or on the eyelashes and to the better adhesion of this film and to the way in which it lasts.

In fact, it is important firstly that lip rouges in stick form should be sufficiently strong so that, during application, the stick does not break or fracture, and secondly that lip rouges in paste form and mascaras should adhere well whilst being sufficiently glossy.

After extensive investigations, we have now found, surprisingly, that it is possible to manufacture make-up products and especially lip rouges in stick or paste form and mascaras which possess the various properties mentioned above, if a composition containing a mixture of at least one cosmetic fatty constituent and at least one copolymer of a particular type which has great affinity for the fatty constituent and which is non-toxic is used as the fatty base.

The present invention thus provides a fatty composition suitable for the manufacture of cosmetic products, this composition comprising a mixture of at least one cosmetic fatty constituent (as hereinafter defined) and at least one non-toxic, optionally crosslinked, copolymer having recurring units of the following formulae:



in which:

R₁ represents a linear or branched saturated hydrocarbon radical with up to 19 carbon



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R₂ represents

wherein R4 is as defined under R1 but is different from R₁,

-CH₂-R₅, wherein R₅ represents a linear or branched saturated hydrocarbon radical with 5 to 25 carbon atoms,

-O-R₆, wherein R₈ represents a saturated hydrocarbon radical with 2 to 18 carbon atoms,

wherein R, represents a linear or branched saturated hydrocarbon radical with up to 19 carbon atoms;

15 and R₃ represents a hydrogen atom when R₂ is as defined under a), b) or c) or R_s represents a hydrogen atom or a methyl radical when R2 represents a radical as defined under d), with the proviso that at least 15% 20 by weight of the copolymer consists of a monomer of formula Ia or Ib which contains a linear or branched saturated hydrocarbon radical of at least 7 carbon atoms.

According to the invention, by "fatty constituent" there is to be understood a wax or a mixture of waxes or a mixture of at least one wax and at least one oil. Preferably, the "fatty constituent" according to the invention consists of 6 to 100% by weight of at least one wax and 0 to 94% by weight of at least one oil.

The presence in the fatty composition of at least one copolymer as defined above makes it possible to impart great resistance to breaking to the make-up products in stick form, and ensures that the film deposited on the lips, for example, possesses excellent gloss and lasts very well.

In the case of the compositions in paste form, and especially lip rouges or lip glosses, the presence of at least one copolymer makes it possible to impart a very unctuous and very supple-consistency-to-these-compositions-andto ensure that the film deposited on the lips possesses an excellent gloss and adheres well and that the gloss of the film lasts for a longer period.

In the case of the compositions in the form of mascaras, the presence of a copolymer also improves the adhesion of the film and increases the water resistance of the film deposited on the eyelashes.

All the copolymers described above possess the characteristic of being fat-soluble, that is to say they have a great affinity for the waxes and oils with which they are mixed. It is this very important property which makes it pos-

sible to impart excellent qualities to the cosmetic compositions manufactured from the fatty composition according to the invention.

This fat-solubility of the copolymers is due to the presence of at least 15% by weight of at least one of the monomers containing a linear or branched saturated hydrocarbon radical of at least 7, and up to, for example, 25, carbon atoms.

According to the invention, the fatty constituent is preferably present in a proportion of from 65 to 98%, but preferably from 75 to 95%, and the copolymer is preferably present in a proportion of from 2 to 35%, but preferably from 5 to 25%, relative to the total weight of the fatty composition.

It is to be noted that, in the fatty composition according to the invention, the copolymer as defined above can be used either alone or mixed with another copolymer of the same type or mixed with a fat-soluble homopolymer.

Amongst the homopolymers of this type, there may be mentioned in particular those resulting from the homopolymerisation of vinyl esters with 9 to 22 carbon atoms or alkyl acrylates or methacrylates, the alkyl radicals having 10 to 20 carbon atoms.

Preferably, the homopolymer is polyvinyl stearate, polyvinyl stearate crosslinked with divinylbenzene, diallyl ether or diallyl phthalate, polystearyl methacrylate, polyvinyl laurate, polylauryl methacrylate, polystearyl acrylate or polylauryl acrylate, it being possible for these polyacrylates and polymethacrylates to be crosslinked with ethylene glycol dimethacrylate or tetraethylene glycol dimethacrylate.

As stated above, the fatty constituent can consist of one or more waxes and in this case the latter can be, for example, ozokerite, lanolin, lanolin alcohol, hydrogenated lanolin, acetylated lanolin, lanolin wax, beeswax, Candellila wax, microcrystalline wax, Carnauba wax, cetyl alcohol, stearyl alcohol, spermaceti, 100 cacao butter, lanolin fatty acids, petrolatum, vaselines, ("VASELINE" is a Registered Trade Mark), mono-, di- and tri-glycerides which are solid at 25°C, fatty esters which are solid at 25°C, silicone waxes such as methyl- 105 octadecanoxypolysiloxane and poly(dimethylsiloxy)-stearoxysiloxane, stearyl monoethanolamide, colophony and its derivatives such as glycol abietates and glycerol abietates, hydrogenated oils which are solid at 25°C, sucroglycerides, and Ca, Mg, Zr and Al oleates, myristates, lanolates, stearates and dihydroxy-

The fatty constituent can also consist of a mixture of at least one wax and at least one oil, 115 and in this case the oil can be, for example, paraffin oil, Purcellin oil, perhydrosqualene, sweet almond oil, avocado oil, calophyllum oil, castor oil, caballine oil, lard oil, olive oil, mineral oils with a boiling point of 310 to 120 " 410°C, silicone oils such as dimethylpolysiloxanes, linoleyl alcohol, linolenyl alcohol,
oleyl alcohol, cereal germ oil such as wheatgerm oil, isopropyl lanolate, isopropyl palmitate, isopropyl myristate, butyl myristate, cetyl
myristate, hexadecyl stearate, butyl stearate,
decyl oleate, acetyl-glycerides, octanoates and
decanoates of alcohols and polyalcohols like
those of glycol and glycerol, ricinoleates of
alcohols and polyalcohols such as cetyl ricinoleate, isostearyl alcohol, isocetyl lanolate, isopropyl adipate, hexyl laurate and octyldodecanol.

As formula I shows, the copolymers present in the fatty composition result from the copolymerisation of at least one vinyl ester and at least one other monomer which can be derived from particular α -olefines, alkyl vinyl ethers or allyl or methallyl esters.

O Since the particular α-olefines, alkyl vinyl ethers and allyl or methallyl esters from which the monomer of formula Ib may be derived are not homopolymerisable monomers, in contrast to vinyl esters, it follows that the copolymers which result from the copolymerisation of at least one vinyl ester and at least one of the specified non-homopolymerisable monomers, generally consist of 50 to 95 mol % of at least one unit Ia and 50 to 5 mol % of at least one unit Ib in which R₂ represents the radicals —CH₂—R₅, —O—R₆ or

The copolymers can also result from the copolymerisation of at least one vinyl ester and at least one other vinyl ester which is different from the first.

In this case, as indicated above, the vinyl esters are homopolymerisable and the copolymers of this type generally consist of 10 to 90 mol % of at least one unit Ia and 90 to 10 mol % of at least one unit Ib in which R₂ represents the radical

Amongst the vinyl esters which lead to the unit of the formula Ia or to the unit of the formula Ib in which

$$R_2 = O - C - R_4,$$

there may be mentioned vinyl acetate, vinyl propionate, vinyl butanoate, vinyl octanoate, vinyl decanoate, vinyl laurate, vinyl stearate, vinyl isostearate, vinyl 2,2-dimethyl-octanoate, vinyl dimethylpropionate and vinyl esters of

cekanoic acids, cekanoic acids being the trade name of a mixture of branched and linear fatty acids having the same number of carbon atoms, which can be either 8, 9 or 10.

Amongst the α -olefines which lead to the unit of the formula Ib in which

 $R_2 = -CH_2 - R_s$, there may be mentioned 1-octene, 1-dodecene, 1-octadecene, 1-eicosene and mixtures of α -olefines with 22 to 28 carbon atoms.

Amongst the alkyl vinyl ethers which lead to the unit of the formula Ib in which

 $R_2 = -O - R_6$, there may be mentioned ethyl vinyl ether, n-butyl vinyl ether, isobutyl vinyl ether, decyl vinyl ether, dodecyl vinyl ether, cetyl vinyl ether and octadecyl vinyl ether.

Amongst the allyl or methallyl esters which 70 lead to the unit of the formula Ib in which

$$R_2 = -CH_2 - O - C - R_7$$

there may be mentioned allyl and methallyl acetates, propionates, dimethylpropionates, butyrates, hexanoates, octanoates, decanoates, laurates, 2,2-dimethyl-pentanoates, stearates and eicosanoates.

The copolymers can also be crosslinked with certain types of crosslinking agents, the purpose of which is substantially to increase their molecular weight.

This crosslinking is suitably carried out during the copolymerisation and the crosslinking agents can be either of the vinyl type or of the allyl or methallyl type.

Amongst the latter, there may be mentioned in particular tetraallyloxyethane, divinylbenzene, divinyl octanedioate, divinyl dodecanedioate and divinyl octadecanedioate.

The majority of the copolymers used according to the present invention are known and have a molecular weight of from 2,000 to 500,000, and preferably from 4,000 to 200,000.

Amongst the various copolymers which can be used in the fatty composition according to the invention, the following copolymers may be mentioned: vinyl acetate/allyl stearate, vinyl-acetate/vinyl-laurate, vinyl acetate/vinyl stearate, vinyl acetate/octadecene, vinyl ace- 100 tate/octadecyl vinyl ether, vinyl propionate/ allyl laurate, vinyl propionate/vinyl laurate, vinyl stearate/1-octadecene, vinyl acetate/1dodecene, vinyl stearate/ethyl vinyl ether, vinyl propionate/cetyl vinyl ether, vinyl stear- 105 ate/allyl acetate, vinyl 2,2-dimethyloctanoate/ vinyl laurate, allyl 2,2-dimethyl-pentanoate/ vinyl laurate, vinyl dimethyl-propionate/vinyl allyl dimethyl - propionate/vinyl stearate, vinyl propionate/vinyl stearate cross- 110 linked with 0.2% of divinylbenzene, vinyl dimethyl-propionate/vinyl laurate crosslinked

with 0.2% of divinylbenzene, vinyl acetate/octadecyl vinyl ether crosslinked with 0.2% of tetraallyloxyethane, vinyl acetate/allyl stearate crosslinked with 0.2% of divinylbenzene, vinyl acetate/1-octadecene crosslinked with 0.2% of divinylbenzene and allyl propionate/allyl stearate crosslinked with 0.2% of divinylbenzene.

The copolymers which can be used accord-10 ing to the invention, whether or not they are crosslinked, can be prepared in accordance with conventional methods, that is to say by polymerisation in bulk, in suspension, in solu-

tion or in emulsion.

The polymerisation is preferably carried out in solution in an organic solvent or in suspension in water.

As the catalyst, it is possible to use, for example, benzoyl peroxide, lauroyl peroxide 20 or azo-bisisobutyronitrile.

The polymerisation temperature is generally from 50° to 130°C.

The present invention also relates to the solid or semi-solid cosmetic compositions 25 which contain, as the fatty composition, the

composition as defined above.

According to the invention, the proportion of fatty composition in the cosmetic compositions is preferably from 99.5% to 15% by weight relative to the total weight of the cosmetic composition, the copolymer being present in an amount of at least 1.5% by weight, based on the total weight of the cosmetic composition.

These compositions according to the invention can be either in the form of lip rouges in stick or paste form, or in the form of mascaras.

When the compositions according to the invention are in the form of sticks, they can be either lip rouges or lip glosses. The difference between these two embodiments resides in the fact that lip glosses do not contain, or contain only a very small proportion of, dyestuffs which serve solely to dye the stick but do not 45 allow a colouration to be imparted to the lips.

In this particular embodiment, the fatty composition according to the invention is preferably present in a proportion of from 75 to 99.5% relative to the total weight of the

50 stick.

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The various ingredients which can be introduced into these sticks are those conventionally employed for this type of formulation. Amongst these ingredients, there may be mentioned in particular soluble or insoluble dyestuffs which are generally present in a proportion of from 6 to 15%, solvents for certain dyestuffs which are insoluble in the fatty constituents and especially eosin derivatives, agents 60 for imparting a pearly lustre, in a proportion of 2 to 20%, perfumes, anti-sunburn agents, anti-oxidants and preservatives.

Amongst the various dyestuffs for lip rouges, there may be mentioned

particular eosins and other halogenated derivatives of fluorescein (bromo-acids) especially those known by the names of D and C Red No. 21, D and C Red No. 27 and D and C Orange No. 5, inorganic pigments such as iron oxide and chromium oxide, ultramarines (poly-aminosilicate sulphides) and titanium dioxide, these compounds being employed at a concentration of about 1 to 6%, and organic pigments such as D and C Red No. 36 and D and C Orange No. 17.

Finally, lacquers such as calcium lacquers of D and C Red No. 7, 21 and 27, barium lacquers of D and C Red No. 6 and 9, Al lacquers of D and C Red No. 21 and D and C Yellow No. 5 and 6, and zirconium lacquers of D and C Red No. 21 and D and C Orange No. 5 may also be included in the dyestuffs.

Amongst the solvents for dyestuffs which are insoluble in oils, there may be mentioned glycols, tetrahydrofurfuryl esters, polyethylene glycols and monoalkanolamides.

Amongst the agents for imparting a pearly lustre, there may be mentioned in particular bismuth oxychloride, titanium-mica guanine crystals.

Amongst the anti-oxidants, there may be mentioned in particular those of the phenolic type such as propyl, octyl and dodecyl esters of acid, butylated hydroxy-anisole, butylated hydroxy-toluene and nordihydroguai-

aretic acid.

When the compositions are in the form of pastes, they can also be lip rouges or lip glosses and thus contain the same ingredients 100 as the sticks. In this embodiment, the fatty composition is also present in a proportion identical to that of the sticks.

However, in a paste the proportion of wax is lower and it is preferably recommended 105 not to exceed 85% of wax relative to the total weight of the fatty composition.

These compositions are preferably an-hydrous, whether they are in the form of sticks or pastes, but in certain cases they can con- 110 tain some amounts of water generally not exceeding 8 to 10% relative to the total weight of the cosmetic composition.

When the cosmetic compositions according to the invention are in the form of mascaras, 115 the latter are in a semi-solid form and can be either anhydrous or aqueous.

In this particular embodiment, the proportion of fatty composition according to the invention is preferably from 15 to 40% relative 120 to the total weight of the mascara.

When the mascaras are anhydrous, they contain, in addition to the fatty composition, a volatile product (ie. a product which will evaporate sooner than the other constituents), 125 in a proportion generally from 35 to 50% relative to the total weight of the mascara. Amongst the volatile compounds, there may

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be mentioned in particular isoparaffin oil of turpentine, isopropyl alcohol, ethyl alcohol, and white spirit.

On the other hand, when the mascaras are aqueous (in this case they are then more particularly emulsions of the oil-in-water type) they preferably contain 50 to 70% by weight of water relative to the total weight of the mascara, 8 to 20% of an emulsifier such as aminopropanediol oleostearate, amino-propanediol stearate or oleate or oleostearate, morpholine stearate or oleate, mono-, di- or triethanolamine stearate or oleate, mono-, di- or tri-isopropylamine stearate or oleate or oleo-15 stearate, polyoxyethyleneated or polygly-cerolated fatty ethers or esters and the like, and a substance for improving the adhesion and the flow of the mascara, such as, for example, cellulose derivatives like hydroxy-cellulose or gum arabic.

Whether the mascaras are anhydrous or aqueous, they also contain dyestuffs and more particularly certain pigments such as carbon black or black iron oxide, chromium oxides, yellow and red iron oxides and finally certain metal powders such as those of silver or aluminium.

The mascaras according to the invention can also contain other conventional ingredients such as perfumes, anti-oxidants and preservatives.

As has been indicated above, whether the compositions are in the form of sticks, pastes or mascaras, they should preferably not contain an amount of copolymer less than 1.5% by weight relative to the total weight of these types of compositions.

As far as the upper concentration of copolymer in the cosmetic compositions is concerned, it is a function of the ratios of the fatty composition and can be approximately 35% and preferably approximately 25% in the case of sticks and pastes, and approximately 15% and preferably approximately 10% in the case of mascaras.

Examples of the preparation of copolymers and of fatty compositions and cosmetic compositions according to the invention will now be given by way of illustration.

50 EXAMPLES OF THE PREPARATION OF COPOLYMERS.

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Preparation of a copolymer: 60% of vinyl acetate/40% of allyl stearate

EXAMPLE 1.

(Molar ratio: vinyl acetate, 85%/allyl stearate, 15%).

60 g of vinyl acetate, 40 g of allyl stearate and 3.4 g of benzoyl peroxide dissolved in 100 g of toluene are introduced into a 1 litre

flask equipped with a mechanical stirrer, a nitrogen inlet and a condenser. The solution is heated, with stirring, for 18 hours at 100°C. After distilling 75 g of toluene under reduced pressure, 120 g of methanol, heated beforehand to 50°C, are introduced. The methanol/ vinyl acetate azeotrope (boiling point = 63.8°C) is distilled until approximately 100 g of the mixture have been recovered and then a further 120 g of methanol, heated to 50°C, are introduced and approximately 120 g of the mixture are again distilled. 500 g of methanol are then added and the mixture is heated, with stirring, for 10 minutes at the boiling point of methanol. The polymer dissolves but the solution remains cloudy. The solution is allowed to cool to 20°C, with stirring, and the polymer precipitates in the form of a paste. The supernatant methanol is removed and the polymer is reprecipitated from methanol. After removing the methanol, 400 g of ethanol are introduced and the mixture is heated, with stirring, for 10 minutes at the boiling point of ethanol and is allowed to cool to 20°C, with stirring. After removing the ethanol containing the unreacted allyl stearate, reprecipitation is effected a final time from methanol. The precipitated polymer is iso-lated and dried under reduced pressure, without heating.

Yield: 40% Viscosity = 0.83 cp 90

Preparation of a copolymer: 35% of vinyl acetate/65% of allyl stearate

EXAMPLE 2.

(Molar ratio: vinyl acetate, 67%/allyl stearate, 33%).

35 g of vinyl acetate, 53 g of allyl stearate and 3.4 g of benzoyl peroxide dissolved in 100 g of benzene are introduced into a 500 ml flask equipped with a condenser, a nitrogen inlet and a stirrer. The solution is heated under reflux, with stirring, for 19 hours, then 3.4 g of benzoyl peroxide dissolved in 10 g of benzene are introduced and polymerisation is continued for a further 14 hours. Finally, 1.7 g of benzoyl peroxide dissolved in 5 g of benzene are introduced and polymerisation is continued for 9 hours. The solution is allowed to cool and is poured into 2 litres of methanol. The polymer precipitates in the form of a white 110 powder which is dried at 50°C under reduced pressure.

Yield: 96% Viscosity = 1.10 cps.

EXAMPLES 3 to 23.

By following a similar procedure, other copolymers were prepared. The latter are given in Table A.

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		то	% by		Nature and % of the	Precipitating agent	Viscosity (cp)
Example	Copolymer prepared	%	weight	Solvent	catalyst	(q)	(a)
,	Vinyl acetate	53	30	Isopropanol	AIBN 2% (c)	Methanol	0.81
n	Vinyl laurate	47	70				
	Vinyl acetate	70	40	Mathanol	AIBN 1%	Methanol	1.95
4	Vinyl stearate	30	09	Methanol			
,	Vinyl propionate	43	25	[onenozace]	AIBN 3%	Methanoi	0.74
n	Vinyl laurate	57	75	rsopropanor			
,	Vinyl stearate	77	80	[onedicados]	AIBN 3%	Octane	0.70
٥	1-Octadecene	23	20	racpropago			
t	Vinyl acetate	99	50	lonencanool	AIBN 20%	Fvanoration	0.70
_	Dodecene	34	20	rsopropanoi		to dryness	
	Vinyl acetate	81	09	[contours]	AIRN 2%	Water	92.0
×	1-Octadecene	61	40	rachardard			
	Vinyl stearate	50	08	Methanol	AIBN 3%	Evanoration	1.10
ν.	Ethyl vinyl ether	50	20			to dryness	
	Vinyl propionate	94	85	[continuon]	AIBN 22	Water	0.79
2	Cetyl vinyl ether	9	15	rachadau			
:	Vinyl acetate	11	05	Isonronanol	AIBN 3%	Water	0.70
11	Octadecyl vinyl ether	23	50	ional change			
	Vinyl propionate	06	08	Methanol	AIRN 3%	Water	1.11
7	Allyl laurate	10	20		W		

TABLE A (Continued)

	- ^			Table A (Continued)			
Example	Copolymer prepared	mol %	% by weight	Solvent	Nature and % of the catalyst	Precipitating agent (b)	Viscosity (cp) (a)
	Vinyl stearate	53	80				
3	Allyl acetate	47	20	Methanol	AIBN 4%	Methanol	0.89
-	Vinyl 2,2-dime thyl- octanoate	72	70				
<u>+</u>	Vinyl laurate	28	30	Methanol	AIBN 4%	Methanol	1.01
<u>, , , , , , , , , , , , , , , , , , , </u>	Allyl 2,2-dimethyl- pentanoate	25	20				
3	Vinyl laurate	75	80	Methanol	AIBN 3%	Methanol	69.0
1,4	Vinyl dimethylpropionate	38	20				
3	Vinyl stearate	62	80	Methanol	AIBN 1%	Methanol	1.27
17	Allyl dimethylpropanoate	48	30				
1	Vinyl stearate	52	70	Methanol	AIBN 4%	Methanol	0.70
	Vinyl propionate	57	30				
2	Vinyl stearate cross- linked with 0.2% of		1	Acetone	AIBN 3%	Evaporation to dryness	0.97
	diviny) benzene	€	2				
19	Vinyl dimethy Ipropanoate	24	15		200 200 200		
	Vinyl laurate cross- linked with 0.2% of	7	ŭ	Isopropanol	AIBN 2%	Methanol	0.76
		2	6				
20	Vinyl acetate	77	20	C	2001		
	Octadecyl vinyl ether			Benzene	AIBN 3%	Ethanol	0.61
	tetraallyloxyethane	23	20				

TABLE A (Continued)

Example	Copolymer prepared	mol %	% by weight	Solvent	Nature and % of the catalyst	Precipitating agent (b)	Viscosity (cp) (a)
	Vinyl acetate	62	30	•	20 1101		0
17	Allyl stearate crosslinked with 0.2% of divinyl-			Isopropanol	AIBN 2%	Methanol	0.08
	benzene	38	70				-
22	Vinyl acetate	75	20	Isopropanol	AIBN 2%	Evaporation	9,0
	1-octadecene crosslinked with 0.2% of divinv1-			4		to diyness	
		25	20				
73	Allyl propionate	23	10	Arctor	AIBN 3%	Hyperotion	0.74
Ç.	Vinyl stearate cross- linked with 0.2% of				97 NGTC	to dryness	5
	divinylbenzene	77	06				

Notes: All the copolymers of Examples 3 to 23 were prepared by heating in solution at 80°C for 24 hours.

(a): The viscosities were measured as a 5% strength solution in toluene at 34.6°C.

(b): After the end of the polymerisation, the mixture is poured into one of the solvents indicated in order to precipitate the copolymer.

(c): AIBN (azo-bis-isobutyronitrile).

10			15	
89.9 g	0.1 g	 50 50		
Fatty composition A Anti-oxidant (butylated hydroxy-	toluene) Anti-sunburn agent (trimethyl-		Ð.	D and C Red No. 36
EXAMPLES OF COMPOSITIONS ACCORDING TO THE INVENTION.	Preparations of lip rouges in stick form	EXAMPLE I.	A lip rouge in stick form having the follow-	invention:

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9		1,4/0	,194		y
	Al lacquer of F.D.C. Yellow 6	1 g	Castor oil	38.5 g	55
	Al lacquer of D and C Red No. 27	7 1.5 g	Oleyl alcohol Isopropyl lanolate	15 g 10 g	
	The fatty composition A results fr	om mix-		5 g	
	ing the following ingredients:	••••	Copolymer according to Example 1	10 g	
5	Ozokerite	16 g	EXAMPLE IV.		60
	Lanolin	28 g	A lip rouge in stick form having the		
	Oleyl alcohol	10 g	ing composition is prepared according	g to the	
	Cetyl ricinoleate	20 g	invention:		
10	Octanoate acid triglycerides Wheatgerm oil	20 g 1 g	Fatty composition D	89.9 g	
10	Copolymer according to Example 1	5 g	Anti-oxidant (butylated hydroxy-	67.7 g	65
		- 6	toluene)	0.1 g	
	EXAMPLE II.		Anti-sunburn agent (trimethyl-		
	A pearly lip rouge in stick form ha		benzylidene-heptanone)	l g	
15	following composition is prepared according invention:	ording to	Perfume Drockyffer	1 g	. 70
13	the invention.		Dyestuffs: Titanium oxide	4.5 g	. 70
	Fatty composition B	79.9 g	D and C Red No. 36	1 g	
	Anti-oxidant (butylated hydroxy-	6	Al lacquer of F.D.C. Yellow 6	1 g	
	toluene)	0.1 g	Al lacquer of D and C Red No. 27	1.5 g	
••	Anti-sunburn agent (trimethyl-		-		
20	benzylidene-heptanone)	1 g	The fatty composition D is identicated		75
	Dyestuffs:	1 _	composition C with the exception of	the 10 g	
	Titanium oxide Al lacquer of D and C Red No. 27	1 g 1.5 g	of the copolymer which are replace mixture of:	o by a	
	Black iron oxide	1.5 g	mixture or.		
25	Yellow iron oxide	0.5 g	Copolymer according to Example 2	6 g	
	Mico-titanium	15 g	Polyvinyl stearate	4 g	80
			EXAMPLE V.		
	The fatty composition B results fr	om mix-	A lip rouge in stick form having the		
	ing the following ingredients:		ing composition is prepared accordin invention:	g to the	
	Candellila wax	9 g	,		
30	Microcrystalline wax	4 g	Fatty composition E	89.8 g	85
	Mineral oil	13 g	Anti-oxidant (butylated hydroxy-		
	Cetyl ricinoleate Lanolin	15 g 15 g	toluene)	0.1 g	
	Liquid lanolin	25 g	Anti-sunburn agent (trimethyl- benzylidene-heptanone)	1 ~	
35	Isopropyl lanolin	14 g	Perfume	lg lg	90
	Copolymer according to Example 3	5. g	Dyestuffs:	- 5	30
		_	Titanium oxide	2.2 g	
	EXAMPLE III.		Al lacquer of D and C Red No. 27	3.6 g	
	A transparent lip gloss in stick form	n having	Black iron oxide	$0.4 \mathrm{g}$	
40	the following composition is prepared	accord-	D and C Red No. 36	0.9 g	95
70	ing to the invention:		Al lacquer of D and C Yellow No.	51 g	
	Fatty composition C	96.9 g	The fatty composition E results from	n mivina	
	Anti-oxidant (butylated hydroxy-		the following ingredients:	7 HILANIE	
	anisole)	0.1-g			
45	Perfume	1 g	Microcrystalline wax	9 g	
43	Dyestuffs: Zr lacquer of D and C Red No. 21	05 a	Lanolin	30 g	100
	D and C Red No. 36	1 g	Oleyl alcohol	9 g	
	Al lacquer of F.D.C. Yellow No. 5	0.5 g	Cetyl ricinoleate Octanoic acid triglycerides	20 g	
			Isopropyl lanolate	16 g 10 g	
	The fatty composition C results from	om mix-	Wheatgerm oil	1 g	105
50	ing the following ingredients:		Copolymer according to Example 4	5 g	
	Ozokonica	125~	In this fatty composition E, the co	polymer	
	Ozokerite Carnauba wax	12.5 g	according to Example 4 can advantage	ously be	
	Candellila wax	2 g 2 g	replaced by the same amount of one	of the	110
	Hydrogenated lanolin	5 g	copolymers prepared according to E 5, 6, 7 or 9.	xampies	110
	, U	Ü	-, -,, -,		

10			,		
	EXAMPLE VI.		Carnauba wax	3 g	
•	A lip rouge in stick form having the	e follow-	Castor oil	44 g	
	ing composition is prepared according		Isopropyl lanolin	12 g	60
	invention:	8 00	Copolymer according to Example 20	5 g	
5	Fatty composition E' Anti-oxidant (butylated hydroxy-	82.5 g	Lip gloss in paste form.		
		0.1 g	EXAMPLE IX.		
	toluene) Perfume		A lip gloss in paste form having t	he fol-	
		l g	lowing composition is prepared accord	ding to	6
	Titanium oxide	1.8 g	the invention:	umg to	U.
)	D and C Orange No. 5	0.3 g	the invention.		
	Al lacquer of D and C Yellow No. 6	8.8 g	Fatty composition G	97.9 g	
	D and C Red No. 6	5.5 g	Anti-oxidant	•	
	ent e to the total	•	Perfume	0.1 g	
	The fatty composition E' is identif		Dyestuffs:	1 g	7
	fatty composition E with the excepti			Λ 1 –	70
5	fact that the 5 g of copolymer acco		Titanium oxide	0.2 g	
	Example 4 was replaced by the same		Zr lacquer of D and C Red No. 21	0.3 g	
	of copolymer according to Example 1	0.	Al lacquer of F.D.C. Yellow No. 6		
			D and C Red No. 36	0.3 g	
	EXAMPLE VII. A pearly lip rouge in stick form h	guina the	The fatty composition C moule for	m min	-
0			The fatty composition G results fro	111 IIIIX~	7:
-	following composition is prepared to the invention:	recording.	ing the following ingredients:		
	to the invention.		Lanolin	30 g	
	Composition E"	78.85 g	Liquid lanolin	30 g	
	Anti-oxidant (butylated hydroxy-	70.03 g	Vaseline	30 g	
		0.1 g		10 g	_
,	toluene) Perfume	0.1 g	Mineral oil	9 g	8
		1 g	Microcrystalline wax	1 g	
	Zirconium lacquer of D and C Red	Λ0-	Copolymer according to Example 17	20 g	
	No. 21	0.8 g	To this famo assessing C the se		
	Black iron oxide	0.05 g	In this fatty composition G, the co		
^	D and C Orange No. 5	0.2 g	according to Example 17 can advanta		
)	D and C Red No. 36	0.8 g	be replaced by a copolymer prepared ac	cording	8
	Lacquer of Dand C Yellow No. 6	3.2 g	to Examples 19 and 22.		
	Mica-titanium	15 g	~~~		
	The fatty composition E" is ide		EXAMPLE X.		
_	the fatty composition E with the exc		A pearly lip gloss in paste form ha	ving the	:
5	the fact that the 5 g of copolymer		following composition is prepared ac	cording	;
	to Example 4 were replaced by		to the invention:		9
	amount of a copolymer according to	Example			
	11.		Fatty composition H	80.9 g	
_	EXAMPLE VIII.		Anti-oxidant (butylated hydroxy-		
0	A lip rouge in stick form having the		anisole)	$0.1 \mathrm{g}$	
	ing composition is prepared according	ng to the	Perfume	1 g	
	invention:		Dyestuffs:		9
			Al lacquer of D and C Red No. 27	0.5 g	
	Fatty composition F	89.62 g	D and C Red No. 36		
_	Anti-oxidant (butylated hydroxy-		Al lacquer of F.D.C. Yellow No. 5	0.5 g	
5_	toluene)		Bi_oxychloride	16.5 g	~
	Perfume	1 g	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	D and C Red No. 30	5 g	The fatty composition H results fro	m mix-	10
	Calcium lacquer of D and C (sic)		ing the following ingredients:	•	
	No 7	0.8 g		••	
_	No. 7		Lanolin	30 g	
0	D and C Red No. 36	0.5 g		- 7 0	
0	D and C Red No. 36 Titanium oxide	2.6 g	Lanolin wax	4 g	
0	D and C Red No. 36		Lanolin wax Oleyi alcohol	4 g 13 g	
0	D and C Red No. 36 Titanium oxide Black iron oxide	2.6 g 0.38 g	Lanolin wax Oleyi alcohol Cetyl ricinoleate	4 g 13 g 10 g	10
0	D and C Red No. 36 Titanium oxide Black iron oxide The fatty composition F results f	2.6 g 0.38 g	Lanolin wax Oleyi alcohol	4 g 13 g 10 g 3 g	10
0	D and C Red No. 36 Titanium oxide Black iron oxide	2.6 g 0.38 g	Lanolin wax Oleyl alcohol Cetyl ricinoleate Mineral oil Castor oil	4 g 13 g 10 g 3 g 20 g	10
0	D and C Red No. 36 Titanium oxide Black iron oxide The fatty composition F results f	2.6 g 0.38 g	Lanolin wax Oleyl alcohol Cetyl ricinoleate Mineral oil	4 g 13 g 10 g 3 g	10
	D and C Red No. 36 Titanium oxide Black iron oxide The fatty composition F results f	2.6 g 0.38 g rom mix-	Lanolin wax Oleyl alcohol Cetyl ricinoleate Mineral oil Castor oil	4 g 13 g 10 g 3 g 20 g	10
0	D and C Red No. 36 Titanium oxide Black iron oxide The fatty composition F results f ing the following ingredients:	2.6 g 0.38 g rom mix-	Lanolin wax Oleyl alcohol Cetyl ricinoleate Mineral oil Castor oil	4 g 13 g 10 g 3 g 20 g 20 g	10

	be replaced by the same amount of a mer prepared according to Examples and 16.	copoly- 12, 15	EXAMPLE XIII. A lip gloss in paste form having lowing composition is prepared account the invention:	the fol- rding to	- 0	60
5	EXAMPLE XI. A lip gloss in paste form having the ing composition is prepared according invention:	follow- to the	Fatty composition K Anti-oxidant (butylated hydroxy- toluene)	97.570 0.1	g g	
10	Fatty composition I Anti-oxidant (butylated hydroxy- toluene) Perfume	97.04 g 0.1 g 1 g	Perfume Black iron oxide D and C Red No. 6 D and C Red No. 36 Yellow iron oxide	0.035	g g	65
	Zirconium lacquer of D and C Red No. 21 Calcium lacquer of D and C Red	0.4 g	The fatty composition K results from the following ingredients:		•	70
15	No. 7 Black iron oxide Al lacquer of D and C Yellow No. 6	0.12 g 0.14 g 1.2 g	Microcrystalline wax Oxokerite	1.5 g		
	The fatty composition I results from the following ingredients:	n mixing	Liquid lanolin Mineral oil Lanolin Solidified mineral oil	28 g 11 g 20 g 15 g	5	75
20	Microcrystalline wax Ozokerite Lanolin Mineral lanolin	1.5 g 2.5 g 15 g 37 g	Cationic bentonite Copolymer according to Example 17 In this fatty composition K, the c	7.5 g	3	
25	Cationic bentonite Copolymer according to Example 23	4 g 10 g	according to Example 17 can be rep a mixture of copolymers prepared to Examples 8 and 11 (10 g of the c	placed l accordin opolym	by ng er	80
	EXAMPLE XII. A slightly pearly lip gloss in paste for ing the following composition is according to the invention:	orm hav- prepared	according to Example 8 and 5 g of th mer according to Example 11). EXAMPLE XIV.	e copor	y-	05
30	Fatty composition J Anti-oxidant (butylated hydroxy- toluene)	93.95 g 0.1 g	A lip rouge in paste form for an a device is prepared according to the it has the following composition:	pplication prention	on n;	85
35	Perfume D and C Red No. 21 Zirconium lacquer of D and C Red No. 21	1 g 0.05 g 0.2 g	Fatty composition L Anti-oxidant (butylated hydroxy- toluene)	85.9 0.1	g	90
	Calcium lacquer of D and C Red No. 7 Aluminium lacquer of D and C	0.2 g	Cationic bentonite Perfume Dyestuffs:	1 ;	g	95
40	Yellow No. 6 Mica-titanium	0.5 g 4 · g	Titanium oxide Al lacquer of D and C Red No. 27 Ca lacquer of D and C Red No. 7	3 1	g g	
. sa.	The composition J results from m following ingredients:		The fatty composition L results fing the following ingredients:		ix-	
45	Microcrystalline wax Oxokerite Liquid lanolin Mineral oil	2.5 g 3 g 28 g 11 g	Lanolin Isopropyl lanolin Mineral oil	18 18 4	g	100
50	Lanolin Solidified mineral oil Cationic bentonite	23 g 15 g 7.5 g 10 g	Oleyl alcohol Hydrogenated lanolin Cetyl ricinoleate Castor oil Copolymer according to Example 1	10 8 8 18	g g g g	105
55	In this fatty composition, the caccording to Example 18 can advant be replaced by the same amount polymer prepared according to Exa 20 or 21.	tageously of a co-	EXAMPLE XV. A lip rouge in paste form having ting composition is prepared according invention:	he follo	w-	110

12		1,476	i,194		12
	Fatty composition M	83.9 g	Demineralised water	58.8 g	
	Anti-oxidant (butylated hydroxy-		Black iron oxide	10 g	
	anisole)	0.1 g	Methyl para-hydroxy-benzoate	0.2 g	
	Perfume	1 g			
	Cationic bentonite	3 g	The fatty composition O results fr	om mix-	
	Dyestuffs:		ing the following ingredients:		6
	Titanium oxide	1 g	•		
	Al lacquer of D and C Red No. 2		Carnauba wax	99 g	
	D and C Red No. 30	3 g	Copolymer according to Example 1	11 g	
)	Ca lacquer of D and C Red No. 7	5 g	Mar 1 2 Cm 41 4717477		
	The few constitution M is identi-	-1	EXAMPLE XVIII.		
	The fatty composition M is identic		An automatic mascara of the "MA		
	composition G with the exception of		MATIC" type having the following		(
	of copolymer which are replaced by a	mixture	tion is prepared according to the inve	ention:	
	of:		Forth communicion B	10 -	
:	Canalyma- according to Evample 1	10 g	Fatty composition P	18 g	
,	Copolymer according to Example 1		Amino-propanediol oleostearate Hydroxyethyl-cellulose Demineralised water	12 g	
	Copolymer according to Example 6	5 g	Descipantiand success	1 g	
	Polyvinyl stearate crosslinked with divinylbenzene	5 g	Volley iron ovide	58.8 g	
	ulvillylochzene	, g	Yellow iron oxide	6 g	
	EXAMPLE XVI.		Black iron oxide	4 g	
)	A lip rouge in paste form having	the fol	Methyl para-hydroxy-benzoate	0.2 g	
•	lowing composition is prepared according		The fatty commedition B results for		
	the invention:	numg to	The fatty composition P results fr	OIII IIIIX~	
	the invention.		ing the following ingredients:		
	Fatty composition N	760 ~	Comoulo mar	90 a	
	Fatty composition N	76.9 g	Carnauba wax	89 g	
;	Anti-oxidant (butylated hydroxy-	01.	Copolymer according to Example 2	11 g	
•	toluene) Perfume	0.1 g	To able from accountable the		
	Cationic bentonite	1 g 4 g	In this fatty composition, the c		
	Dyestuffs:	4 g	according to Example 2 can advantage		
	Ca lacquer of D and C Red No. 7	1.5 g	replaced by the same amount of a c		
)	D and C Red No. 30	3 g	according to Examples 3, 5, 7, 8 and	18.	
,	Al lacquer of F.D.C. Red No. 5	1.5 g	EXAMPLE XIX.		
	Mica-titanium	12 g	A mascara having the following	aammaai	
	.,	6	tion is prepared according to the inv		
	The fatty composition N results fr	rom mix-	don is prepared according to the my	CHLIOII.	
	ing the following ingredients:		Fatty composition Q	18 g	
	mg and route, mg mg.outems.		Amino-propanediol oleostearate	12 g	
,	Microcrystalline wax	1 g	Hydroxyethyl-cellulose	1 g	
	Candellila wax	2 g	Demineralised water	58. g	
	Lanolin wax	5 g	Poly-amiosilicate sulphide	8 g	
	Castor oil	8 g	Black iron oxide	2 g	,
	Cetyl ricinoleate	8 g	Methyl para-hydroxy-benzoate	0.2 g	
)	Mineral oil	20 g		7 B	
	Isopropyl lanolate	11 g	The fatty composition Q results fr	om mix-	
		15 g	ing the following ingredients:		
	Decanoic acid trigiveerides				
	Decanoic acid triglycerides Copolymer according to Example 21	30 g			
	Copolymer according to Example 21	30 g	Carnauba wax	89 g	
	Copolymer according to Example 21	30 g		89 g	(
	Copolymer according to Example 21 —In-this-fatty composition, the co- according to Example 21 can advant	30 g opolymer— tageously	Carnauba wax Copolymer according to Example 12	89 g - 11-g	
	Copolymer according to Example 21 —In-this-fatty composition, the co- according to Example 21 can advant	30 g opolymer— tageously	Copolymer according to Example 12	- 11-g	- 4
	Copolymer according to Example 21 —In-this-fatty composition, the co	30 g opolymer— tageously	Copolymer according to Example 12 In this fatty composition, the co	– 11-g opolymer	(
,	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer according to Example 21.	30 g opolymer— tageously	Copolymer according to Example 12 In this fatty composition, the coaccording to Example 12 can advan	- 11-g opolymer tageously	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer acco Example 23. EXAMPLE XVII.	30 g opolymer tageously rding to	In this fatty composition, the caccording to Example 12 can advant be replaced by the same amount of the	opolymer tageously e copoly-	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer according Example 23. EXAMPLE XVII. An automatic mascara of the "Magnetic factors according to Example 24."	30 g opolymer tageously rding to	Copolymer according to Example 12 In this fatty composition, the coaccording to Example 12 can advan	opolymer tageously e copoly-	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer according Example 23. EXAMPLE XVII. An automatic mascara of the "Magnetic factors according to Example 24."	30 g opolymer tageously rding to	In this fatty composition, the confidence of the	opolymer tageously e copoly-	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer according Example 23. EXAMPLE XVII. An automatic mascara of the "MAMATIC" (Trade Mark) type ha	30 g opolymer tageously rding to ASCARA ving the	In this fatty composition, the confidence of the	opolymer tageously e copoly-s 20, 21	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer according Example 23. EXAMPLE XVII. An automatic mascara of the "Magnetic factors according to Example 24."	30 g opolymer tageously rding to ASCARA ving the	In this fatty composition, the confidence of the	opolymer tageously e copoly- s 20, 21	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer acco Example 23. EXAMPLE XVII. An automatic mascara of the "Mathematical Mathematical Mathem	30 g opolymer tageously rding to ASCARA ving the	In this fatty composition, the confidence of according to Example 12 can advant be replaced by the same amount of the mer prepared according to Example and 23. EXAMPLE XX. An anhydrous mascara is prepareding to the invention by making up a	opolymer tageously e copoly- s 20, 21	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer acco Example 23. EXAMPLE XVII. An automatic mascara of the "Mathematical Mathematical Mathem	30 g opolymer tageously rding to ASCARA ving the ording to	In this fatty composition, the confidence of the	opolymer tageously e copoly- s 20, 21	
	Copolymer according to Example 21 In-this-fatty composition, the coaccording to Example 21 can advant be replaced by the copolymer acco Example 23. EXAMPLE XVII. An automatic mascara of the "MA MATIC" (Trade Mark) type ha following composition is prepared acc the invention:	30 g opolymer tageously rding to ASCARA ving the	In this fatty composition, the confidence of according to Example 12 can advant be replaced by the same amount of the mer prepared according to Example and 23. EXAMPLE XX. An anhydrous mascara is prepareding to the invention by making up a	opolymer tageously e copoly- s 20, 21	10

Black iron oxide Methyl para-hydroxy-benzoate 0.2 g

The fatty composition R results from mixing the following ingredients:

5	Beeswax	62.5 g
	Lanolin alcohol	12.5 g
	Acetylated Ianolin	10 g
	Copolymer according to Example 14	15 g

EXAMPLE XXI.

10 An anhydrous mascara is prepared according to the invention by making up a mixture of the following ingredients:

	Fatty composition S	39 g
	Iso-paraffin	56.8 g
15	Black iron oxide	4 g
	Methyl para-hydroxy-benzoate	0.2 g

The fatty composition S results from mixing the following ingredients:

20	Beeswax Lanolin alcohol Acetylated lanolin Copolymer according to Example 9	62.5 g 12.5 g 10 g 15 g
	Copolymer according to Example 9	10 g

In this composition, the copolymer according to Example 9 can advantageously be replaced by an equal amount of the copolymer prepared according to Examples 5, 6, 7, 15 and 19 or a mixture of these copolymers.

WHAT WE CLAIM IS:-

1. A fatty composition suitable for the manufacture of cosmetic products, which comprises a mixture of at least one cosmetic fatty constituent (as hereinbefore defined) and at least one non-toxic, optionally crosslinked, copolymer having recurring units of the following formulae:

in which:

R₁ represents a linear or branched saturated hydrocarbon radical with up to 19 carbon R₂ represents:

wherein R4 is as defined under R1 but is different from R₁,

-CH₂-R₅, wherein R₅ represents a linear or branched saturated hydrocarbon radical with 5 to 25 carbon atoms,

-O-R₆, wherein R₆ represents a saturated hydrocarbon radical with 2 to 18 carbon atoms.

wherein R, represents a linear or branched saturated hydrocarbon radical with up to 19 carbon atoms,

and R₃ represents a hydrogen atom when R₂ represents a radical as defined under a), b) or c), or R₃ represents a hydrogen atom or a methyl radical when R₂ represents a radical as defined under d), with the proviso that at least 15% by weight of the copolymer consists of a monomer of formula (Ia) or (Ib) which contains a linear or branched saturated hydrocarbon radical of at least 7 carbon atoms.

2. A composition according to claim 1, in which the cosmetic fatty constituent is present in an amount from 65 to 98%, and the copolymer is present in an amount from 35 to 2%, by weight, based on the total weight of 70 the composition.

3. A composition according to claim 2 in which the cosmetic fatty constituent is present in an amount from 75 to 95% by weight, based on the total weight of the composition.

4. A composition according to any one of claims 1 to 3 in which the cosmetic fatty constituent consists of 6 to 100% by weight of at least one wax and 0 to 94% by weight of at least one oil.

5. A composition according to claim 4 in which the wax is at least one of ozokerite, lanolin, lanolin alcohol, hydrogenated lanolin, acetylated lanolin, lanolin wax, beeswax, Candellila wax, microcrystalline wax, Carnauba wax, cetyl alcohol, stearyl alcohol, spermaceti, cacao butter, a lanolin fatty acid, petrolatum, a mono, di- or triglyceride which is solid at 25°C., a fatty ester which is solid at 25°C., a silicone wax, stearyl monoethanolamide, colophony, a glycol abietate, a glycerol abietate, a hydrogenated oil which is solid at 25°C., a sucro-glyceride, or a Ca, Mf, Zr or Al oleate, myristate, lanolate, stearate or dihydroxystearate.

6. A composition according to claim 4 or 5

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in which the oil is at least one of paraffin oil, Purcellin oil, perhydrosqualene, sweet almond oil, avocado oil, calophyllum oil, castor oil, caballine oil, lard oil, olive oil, a mineral oil with a boiling point of 310° to 410°C., a silicone oil, linoleyl alcohol, linolenyl alcohol, oleyl alcohol, cereal germ oil, isopropyl lanolate, isopropyl palmitate, isopropyl myristate, butyl myristate, cetyl myristate, hexadecyl stearate, butyl stearate, decyl oleate, an acetylgyceride, an octanoate or decanoate of an alcohol or polyalcohol, a ricinoleate of an alcohol or polyalcohol, isostearyl alcohol, isocetyl lanolate, isopropyl adipate, hexyl laurate or octyldodecanol.

7. A composition according to any one of the preceding claims in which the units of formula (Ia), and/or of formula (Ib) in which R₂ represents the radical

are derived from vinyl acetate, vinyl propionate, vinyl butanoate, vinyl octanoate, vinyl decanoate, vinyl laurate, vinyl stearate or vinyl isostearate.

8. A composition according to any one of claims 1 to 6 in which the units of formula (Ib) in which R₂ represents the radical —CH₂—R₅ are derived from 1-octene, 1-dodecene, 1-octadecene or 1-eicosene or a mix-ture of α-olefines with 22 to 28 carbon atoms.

9. A composition according to any one of claims 1 to 6 in which the units of formula (Ib) in which R₂ represents the radical—O—R₆ are derived from ethyl vinyl ether, n-butyl vinyl ether, isobutyl vinyl ether, decyl vinyl ether, dodecyl vinyl ether, cetyl vinyl ether or octadecyl vinyl ether.

10. A composition according to any one of claims 1 to 6 in which the units of formula
(Ib) in which R₂ represents the radical

are derived from allyl or methallyl acetate, propionate, butyrate, hexanoate, octanoate, decanoate, laurate, stearate or eicosanoate.

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11. A composition according to any one of claims 1 to 6 and 8 to 10 in which the copolymer consists of 50 to 95 mol % of at least one unit of formula (Ia) and 50 to 5 mol % of at least one unit of formula (Ib) in which R₂ 50 represents a radical as defined under b), c) or d).

12. A composition according to any one of claims 1 to 7, in which the copolymer consists of 10 to 90 mol % of at least one unit of formula (Ia) and 90 to 10 mol % of at least

one unit of formula (Ib) in which R₂ is as defined under a).

13. A composition according to any one of the preceding claims in which the copolymer is crosslinked.

14. A composition according to claim 13 in which the copolymer is crosslinked by tetraallyloxyethane, divinylbenzene, divinyl octanedioate, divinyl dodecanedioate or divinyl octadecanedioate.

15. A composition according to any one of the preceding claims in which the copolymer has a molecular weight of from 2,000 to 500,000.

16. A composition according to claim 15 in which the copolymer has a molecular weight from 4,000 to 200,000.

17. A composition according to any one of the preceding claims in which at least 30% by weight of the copolymer consists of a monomer of formula (Ia) or (Ib) which contains a linear or branched saturated hydrocarbon radical of at least 7 carbon atoms.

18. A composition according to any one of claims 1 to 16 in which at least 40% by weight of the copolymer consists of a monomer of formula (Ia) or (Ib) which contains a linear or branched saturated hydrocarbon radical of at least 7 carbon atoms.

19. A composition according to any one of claims 1 to 6 and 12 to 18 in which the units of formula (Ia) and/or formula (Ib) in which R₂ represents the radical

are derived from vinyl 2,2-dimethyloctanoate, vinyldimethylpropionate or vinyl esters of cekanoic acids (as hereinbefore defined).

20. A composition according to any one of claims 1 to 6, 11 and 13 to 18 in which the units of formula (Ib) in which R₂ represents the radical

are derived from allyl or methallyl dimethylpropionate or 2,2-dimethylpentanoate.

21. A composition according to claim 1 substantially as hereinbefore described.

22. A solid or semi-solid composition suitable for use as a cosmetic which comprises a fatty composition as claimed in any one of the preceding claims.

23. A composition according to claim 22 which is in the form of a stick and contains from 75 to 99.5% by weight, based on the total weight of the cosmetic composition, of the fatty composition.

24. A composition according to claim 22 which is in the form of a paste and contains from 75 to 99.5% by weight, based on the weight of the cosmetic composition, of the fatty composition, the amount of wax in the fatty composition not exceeding 85% by weight based on the total weight of the fatty composition.

25. A composition according to any one of 10 · claims 22 to 24 which is anhydrous.

26. A composition according to any one of claims 22 to 24 which contains up to 10% by weight based on the total weight of the cosmetic composition, of water.

27. A composition according to claim 22 which is in the form of a semi-solid mascara, is anhydrous and contains 35 to 50% by weight of a volatile product (as hereinbefore defined) based on the total weight of the composition.

28. A composition according to claim 22 which is in the form of a semi-solid mascara and contains 50 to 70% by weight of water and 8 to 20% by weight of an emulsifier, based on the total weight of the cosmetic composition.

29. A composition according to any one of claims 22 to 28 which also contains at least one of a dyestuff which is soluble or insoluble in the continuous medium, an agent which imparts a pearly lustre, a perfume, an antisunburn agent, an anti-oxidant and/or a preservative.

30. A composition according to any one of

claims 22 to 29 which comprises a fatty composition as claimed in claim 18.

31. A composition according to any one of claims 22 and 25 to 30, in which the fatty composition is present in an amount from 99.5% to 15% by weight, based on the total weight of the cosmetic composition, the copolymer being present in an amount of at least 1.5% by weight, based on the total weight of the cosmetic composition.

32. A composition according to claim 23 or 24 in which the copolymer is present in an amount of at least 1.5% by weight, based on the weight of the cosmetic composition.

33. A composition according to any one of claims 22 and 27 to 31 which is in the form of a semi-solid mascara and contains 15 to 40% by weight, based on the total weight of the composition, of the fatty composition.

34. A composition according to claim 22 substantially as hereinbefore described.

35. A composition according to claim 22 substantially as described in any one of Examples II, V to XIII, XV, XVI and XIX to XXI.

36. A composition according to claim 30 substantially as described in any one of Examples I, III, IV, XIV, XVII and XVIII.

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